

Amendment to the Claims:

1. (Cancelled)

2. (Previously Presented) A positioning method for a radio system,
the method comprising:

receiving signals at a unit of the system;

applying at least one test on the received signals prior to processing the

5 signals;

wherein applying the test comprises determining whether a
signal level of the received signal is above a threshold value;

in accordance with the applied test, selecting one of: a
correlation processing operation and a leading edge processing
operation; and

10

performing the selected one of the correlation
processing operation and the leading edge processing operation.

3. (Previously Presented) The method of claim 2, wherein applying
the test further includes:

in response to the level of the received signal being below the
threshold value, selecting the correlation processing operation.

4. (Previously Presented) The method of claim 2, wherein applying
the test further includes:

when the level of the received signal is above the threshold value,
testing whether a leading edge gradient is above a gradient threshold value.

5. (Previously Presented) A positioning method for a radio system,
the method comprising:

receiving signals at a unit of the system;

5 applying at least one test on the received signals to select a processing
operation on the signals, the operation being one of the following: a correlation
processing operation and a leading edge processing operation;

 wherein the applied test comprises:

 determining whether a signal level of the received
signal is above a threshold value;

10 when the level of the received signal is below the
threshold value, selecting the correlation processing operation;

 when a leading edge gradient is below a gradient
threshold value, selecting the leading edge processing operation; and
 effecting the selected operation.

6. (Previously Presented) The method of claim 4, wherein applying
the test further includes:

 in response to the leading edge gradient being above the gradient
threshold value, selecting the correlation processing operation.

7-13. (Cancelled)

14. (Previously Presented) A positioning method for a radio system,
the method comprising:

 receiving signals at a unit of the system;

5 applying at least one test on the received signals prior to processing the
signals to select a processing operation on the signals, the operation being one of the
following: a correlation processing operation, and a leading edge processing
operation;

 then effecting the selected operation; and
 measuring a gradient using the formula:

$$i = Cdv/Dt$$

Where, V=voltage of a signal waveform,

C=capacitance,

i=current, and

15 t=time.

15-16. (Cancelled)

17. (Previously Presented) A computer-readable medium carrying software code which when run on a computer controls the computer to perform the method of:

receiving signals at a unit of a system;

5 applying at least one test on the received signals prior to processing the received signals to select among selectable processing operations for processing the signals, the selected processing operation being only one of: a correlation processing operation and a leading edge processing operation; and

10 then effecting only the selected one of the correlation and leading edge operations.

18-19. (Cancelled)

20. (Previously Presented) A positioning apparatus for a radio system, the apparatus comprising:

5 a receiver which receives radio frequency signals which have potentially suffered at least one of noise degradation and multi-path degradation in a propagation environment;

testing means for testing the received radio frequency signals, which have not been subject to a correlation processing operation, for at least noise degradation and multi-path degradation and selecting one of:

10 a correlation processing operation and
a leading edge processing operation based on the testing; and

a processor which subsequently processes the tested radiofrequency signals with the selected one of the correlation based processing operation and the leading edge processing operation.

21. (Previously Presented) The apparatus of claim 20, wherein the testing means includes:

means to determine whether a signal level of the received radio frequency signal is above a threshold value.

22. (Previously Presented) The apparatus of claim 21, wherein the testing means includes:

means which selects the correlation processing operation in response to the signal level of the received signal being below the level threshold value.

23. (Previously Presented) The apparatus of claim 22, wherein the testing means includes:

5 means to test signals with signal level above the level threshold value to determine whether the signal has a leading edge gradient above a gradient threshold value.

24. (Previously Presented) The apparatus of claim 23, wherein the testing means includes:

means which selects:

5 the leading edge processing operation in response to the leading edge gradient being below the gradient threshold value, and

the correlation processing operation in response to the leading edge gradient being above the gradient threshold value.

25. (Cancelled)

26. (Previously Presented) The apparatus of any of claim 20, wherein the testing means includes:

means to cause the testing means to repeat the testing at predetermined intervals.

27. (Currently Amended) A positioning method for a radio system, the method comprising:

receiving signals at a unit of the system;

5 applying at least one test on the received signals prior to processing the signals to select between a correlation processing operation and a leading edge processing operation, the test including:

determining whether a signal level of the received signal is above a threshold value;

10 in response to the level of the received signal being below the threshold value, selecting the correlation processing operation;

when the level of the received signal is above the threshold value, testing whether a leading edge gradient value is above a gradient threshold value;

15 in response to the leading edge gradient value being below the gradient threshold value, selecting the leading edge processing operation; and

20 in response to the leading edge gradient value being above the gradient threshold value, selecting the correlation processing operation.